

$$1 \mod f(x) = x \ln x + \frac{a}{2}x^2 + 1$$

$$\operatorname{diag}^{f(x)}\operatorname{d}^{x=0}\operatorname{docood}^{a}\operatorname{docoodood}$$

$$\textcircled{1} \ \square \ \stackrel{f(x)}{\longrightarrow} \ ^{2} \square \square \square \square \ ^{2} \square \square \square \square.$$

$$\textcircled{2} \ \square^{\ f(\ X)} \ \square \square \square \square \square \square \square \ ^{\partial} \square \square \square \square \square.$$

$$300000 f(x) = e^{x \cdot 1} - mx^2 (m \in \mathbf{R}).$$

$$0,\frac{1}{2} = f(x) = \left(0,\frac{1}{2}\right) = 0$$

$$20000^{y=f(x)}0000000000^{a}000000$$

$$500000 f(x) = ae^{x} - \ln(x+1) + \ln a - 1$$
.

 $\square 1 \square \square a = 1 \square \square \square f(x) \square \square$

020000 f(x) 0000000000 a 00000.

$$6 \mod f(x) = x - \ln x - 2$$

$$0100000^{\left(1,\;f(\,1)\,\right)}000000$$

020000
$$f(x)$$
 000 $(3,4)$ 00000000

700000
$$f(x) = (x - k - 1) e^{x}$$
000 e 000000000

$$0100 \stackrel{k=-}{=} 100000 \stackrel{f(X)}{=} 0000$$

020000
$$g(x) = f(x) + e^{x} = x \in (0, +\infty)$$
 000000000 K 000000

0300000
$$f(x) > 3x_{00000} x \in \mathbf{R}_{00000000} k_{000000}$$

800000
$$f(x) = \frac{1}{a}x^2 + \ln x - \left(2 + \frac{1}{a}\right)x_{0} (a \neq 0).$$

$$0100 a = \frac{1}{2}00000 f(x) 00(1, f(1)) 0000000$$

900000
$$f(x) = x - \ln x - 2$$

$$010000 \stackrel{f(x)}{=} 000 \stackrel{(3,4)}{=} 000000000$$

020000000
$$x \in (1,+\infty)$$
 000 $x \ln x + x > k(x-1)$ 0000 k

100000
$$f(x) = e^x - x + 2x^2$$

02000000
$$X_{000}$$
 $f(x) \le x^2 + 2x - 3 + 2m_{000000}$ m_{00000}

110000
$$f(x) = \ln x - \frac{1}{2}ax^2 + (a-1)x$$
.

$$0200 f(x) \le \frac{e^x}{2e^x} - \frac{1}{2}ax^2 - x_{0000000} a_{00000}.$$

$$12_{\text{0000}} f(x) = ax + \frac{a}{x} - (\ln x)^{2} (a \in \mathbb{R} \cup e_{\text{0000000}}).$$

$$20000 x 0000 e^{x} + e^{x} - 2\ln x \ge b 0000 b 0000.$$

$$13 \boxed{\square} \boxed{\square} f(x) = x \ln x - mx + m.$$

$$200 \times 100 f(x) + 2x > 0 0000000 m_{0000}.$$



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